

Plug-n-Play Pre-terminated Fiber Trunk Cables

FEATURES

- Plug-n-play fiber eliminates the need for complicated and craft-sensitive field terminations and splices
- Every fiber component is factory terminated and pre-tested using automated procedures to ensure product quality
- All discrete connectors (LC, SC) are heat cured and use ceramic ferrules and sleeves for consistent performance
- Available in 12, 24, 48, 72, 96, 144, or custom fiber counts
- Available in indoor/outdoor-rated plenum or LSZH riser, all dielectric or interlock armor versions, depending on the application
- Fiber types include OS2, OM1, OM3, and OM4
- Standard breakout lengths can be staggered to ease installation
- Pulling eyes are provided as an option along with robust connector protection on both ends to safeguard connectors during installation
- Trunk cables have a sturdy breakout point, yet are flexible enough to allow for smooth curving of breakout cordage without kinking or creating sharp bends

STANDARDS & REGULATIONS

- ANSI/TIA-568.3-D
- IEEE 802.3
- ANSI/TIA-942 data center design guidelines
- IEC 60332-1-2
- IEC 60332-3-24 CAT.C
- IEC 61034-2
- IEC 61755
- IEC 60332-1-3
- IEC 60332-3-25 CAT.D
- IEC 61300-3-35

DESIGN CONSIDERATIONS

- For use with MTP® cassettes, panels, and brackets
- Standard breakout length is 24 inches; other lengths available upon request
- Total trunk length is from connector to connector
- Trunks over 125 feet long are shipped on spools, or upon request for shorter lengths
- Standard polarity is A to B for LC and SC connectors; for MTP, standard polarity is Method B; other polarities available upon request
- Pulling eye is typically on first-end termination, if selected. First-end breakout length must be staggered if selecting pulling eye
- Sub-units of 12 fibers are staggered 1 inch, if selected. First sub-unit (or 1-12 fibers) is shortest length, then second sub-unit (or 13-24 fiber), etc.
- Method B trunk required for Universal Polarity Cassettes

PERFORMANCE SPECIFICATIONS

Fiber Performance

Fiber Type	Maximum Attenuation (db/km)				Bandwidth (MHz•km)		Transmission Distance (meters)		
	850nm	1300nm	1310nm	1550nm	850nm	1300nm	100Mb	1GbE	10GbE
Single-mode (OS2)	N/A	N/A	0.4	0.3	N/A	N/A	>5,000 @ 1310nm		>10,000 @ 1310nm
50/125 µm LO (10G-300m) MM (OM3)	3.0	1.0	N/A	N/A	2,000 ¹	500 ²	300/2000 @850/1300nm	1,000/600 @ 850/1300nm	300/300 @ 850/1300nm
50/125 µm LO (10G-550m) MM (OM4)	3.0	1.0	N/A	N/A	4,700 ¹	500 ²	1,040/600 @ 850/1300nm	550/300 @ 850/1300nm	550/300 @ 850/1300nm

¹ The effective modal bandwidth is determined based on an overfill launch (OFL) per ANSI/TIA-455-204, except on laser-optimized fiber types.

² 10GbE transmission @ 1,300 nm only applies to 10GBASE-LX4 (CWDM).

PRODUCT SPECIFICATIONS



LC-TO-LC TRUNKS	PART NO.
12-Fiber, OM4, Duplex LC-to-LC, Plenum	PD54-12-5B5BT-LENGTH
24-Fiber, OM4, Duplex LC-to-LC, Plenum	PD54-24-5B5BT-LENGTH
48-Fiber, OM4, Duplex LC-to-LC, Plenum	PD54-48-5B5BT-LENGTH
72-Fiber, OM4, Duplex LC-to-LC, Plenum	PD54-72-5B5BT-LENGTH
144-Fiber, OM4, Duplex LC-to-LC, Plenum	PD54-144-5B5BT-LENGTH
12-Fiber, OS2, Duplex LC-to-LC, Plenum	PD83-12-5B5BT-LENGTH
24-Fiber, OS2, Duplex LC-to-LC, Plenum	PD83-24-5B5BT-LENGTH
48-Fiber, OS2, Duplex LC-to-LC, Plenum	PD83-48-5B5BT-LENGTH
72-Fiber, OS2, Duplex LC-to-LC, Plenum	PD83-72-5B5BT-LENGTH
144-Fiber, OS2, Duplex LC-to-LC, Plenum	PD83-144-5B5BT-LENGTH

OM1 and OM3 available upon request
All strand counts can include a pull grip on one or both sides

MTP®-TO-MTP TRUNKS	PART NO.
12-Fiber, OM4, Unpinned MTP-to-MTP, Plenum	PD54-12-9494BT-LENGTH
24-Fiber, OM4, Unpinned MTP-to-MTP, Plenum	PD54-24-9494BT-LENGTH
48-Fiber, OM4, Unpinned MTP-to-MTP, Plenum	PD54-48-9494BT-LENGTH
96-Fiber, OM4, Unpinned MTP-to-MTP, Plenum	PD54-96-9494BT-LENGTH
144-Fiber, OM4, Unpinned MTP-to-MTP, Plenum	PD54-144-9494BT-LENGTH
12-Fiber, OS2, Unpinned MTP-to-MTP, Plenum	PD83-12-9494BT-LENGTH
24-Fiber, OS2, Unpinned MTP-to-MTP, Plenum	PD83-24-9494BT-LENGTH
48-Fiber, OS2, Unpinned MTP-to-MTP, Plenum	PD83-48-9494BT-LENGTH
96-Fiber, OS2, Unpinned MTP-to-MTP, Plenum	PD83-96-9494BT-LENGTH
144-Fiber, OS2, Unpinned MTP-to-MTP, Plenum	PD83-144-9494BT-LENGTH

OM3 available upon request
All strand counts can include a pull grip on one or both sides
Male MTP and gender and polarity changeable available upon request
LC uniboot and SC configurations also available

PULLING EYE OUTSIDE DIMENSIONS (OD)				
Fiber Count	MTP	LC	LC Uniboot	SC
6	2.0"	1.75"	1.75"	1.75"
12	2.0"	1.75"	1.75"	1.75"
24	2.0"	1.75"	1.75"	1.75"
48	2.0"	1.75"	1.75"	1.75"
72	2.0"	1.75"	1.75"	1.75"
96	2.0"	1.75"	1.75"	1.75"
144	2.0"	1.75"	1.75"	1.75"

PRODUCT SPECIFICATIONS

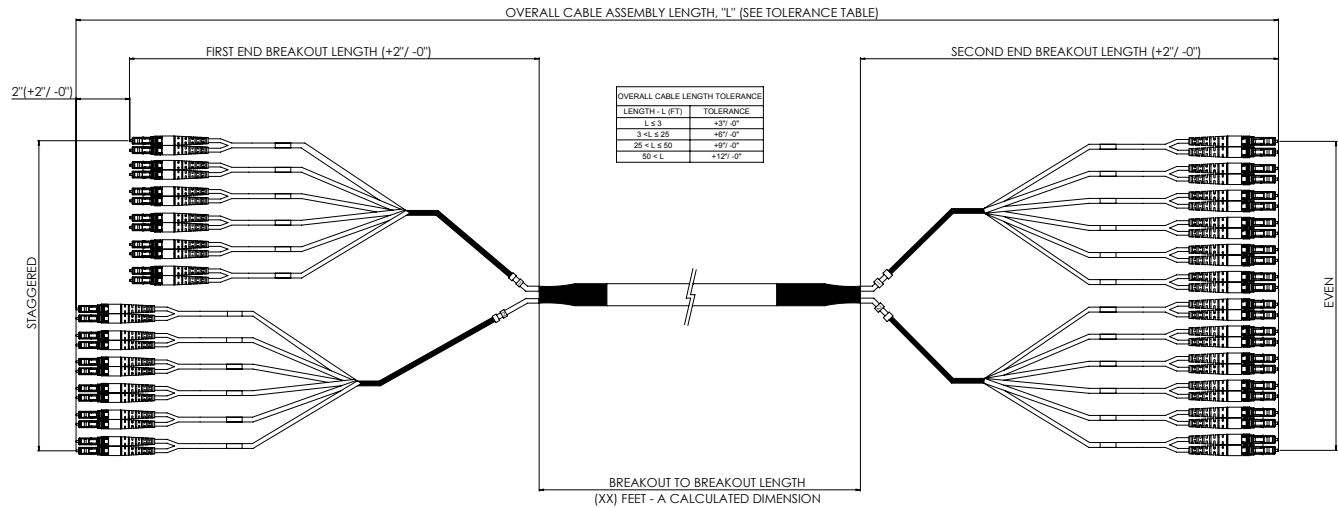
COLOR CODES

Cable Jackets		
OS2 Single-mode		Yellow
OM3/OM4 Laser-optimized multimode (50/125 μm)		Aqua
Connectors		
OS2 Single-mode		Blue
OS2 Single-mode, APC (angle polishing)		Green
OM3 Laser-optimized multimode (50/125 μm)		Aqua
OM4 Laser-optimized multimode (50/125 μm), uniboot		Aqua

FIBER INSERTION LOSS PERFORMANCE (DB)

Connector Mated Pairs	Multimode			Single-mode		
	TYP IL	MAX IL	MIN RL	TYP IL	MAX IL	MIN RL
LC	0.15	0.25	-25	0.15	0.25	-55 (-65 for APC)
SC	0.15	0.25		0.20	0.25	
MTP®	0.25	0.15		0.35	0.75	

Low Loss available upon request



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Additional lengths and variations available.

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